

**Treatment of Acute Uncomplicated Falciparum Malaria with Artemether-Lumefantrine in Non-immune Populations: A Safety, Efficacy, and Pharmacokinetic Study**

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The efficacy and safety of artemether-lumefantrine for the treatment of malaria in nonimmune populations are not well defined. In this study, 165 nonimmune patients from Europe and non-malarious areas of Colombia with acute, uncomplicated falciparum malaria or mixed infection including *P. falciparum* were treated with the six-dose regimen of artemether-lumefantrine. The parasitologic cure rate at 28 days was 96.0% for the per protocol population (119/124 patients). Median times to parasite clearance and fever clearance were 41.5 and 36.8 hours, respectively. No patient had gametocytes after Day 7. Treatment was well tolerated; most adverse events were mild to moderate and seemed to be related to malaria. There were few serious adverse events, none of which were considered to be drug-related. No significant effects on ECG or laboratory parameters were observed. In conclusion, the six-dose regimen of artemether-lumefantrine was effective and well tolerated in the treatment of acute uncomplicated falciparum malaria in nonimmune patients.